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App. No. 10/501,053
Office Action Dated April 6, 2007

IN THE CLAIMS

Amendments To The Claims:

This listing of claims will replace all prior versions and listings of claims in the application.

Claims 11, 12 and 18 are amended.

Claim 22 is canceled without prejudice or disclaimer.

Listing of Claims:

1-10. (Canceled)

11. (Currently Amended) An isolated DNA molecule comprising a nucleotide sequence encoding a human hepatoma-derived growth factor 5 (HDGFS) polypeptide having ~~human HDGFS protein~~ an activity of proliferation of mouse endothelium cells, wherein said nucleotide sequence encodes a polypeptide comprising the amino acid sequence of SEQ ID NO: 2 ~~shares at least 90% homology to the nucleotide sequence of nucleotides 5-910 in SEQ ID NO: 1.~~

12. (Currently Amended) The DNA molecule of Claim 11 wherein said nucleotide sequence encodes a polypeptide ~~comprising~~ consisting of the amino acid sequence of SEQ ID NO: 2.

13. (Original) The DNA molecule of Claim 11 wherein said nucleotide sequence comprises nucleotides 5-910 in SEQ ID NO: 1.

14. (Canceled)

15. (Canceled)

16. (Original) A vector containing the DNA molecule of Claim 11.

17. (Original) A host cell transformed by the vector of Claim 16.

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18. (Currently Amended) A method for producing a human hepatoma-derived growth factor 5 (HDGF5) polypeptide having the activity of HDGF5 protein proliferation of mouse endothelium cells, which comprises the steps of:

- (a) forming an expression vector comprising ~~the~~ a nucleotide sequence encoding the HDGF5 polypeptide having the activity of proliferation of mouse endothelium cells ~~HDGF5 protein~~, wherein said nucleotide sequence is operably linked with an expression regulatory sequences, and said nucleotide sequence encodes a polypeptide comprising the amino acid sequence of SEQ ID NO: 2 ~~shares at least 90% homology to the nucleotide sequence of positions 5-910 in SEQ ID NO: 1;~~
- (b) introducing the vector of step (a) into a host cell, thereby forming a recombinant cell of HDGF5 polypeptide;
- (c) culturing the recombinant cell of step (b) under the conditions suitable for expression of HDGF5 polypeptide; and
- (d) isolating the HDGF5 polypeptides so produced ~~having the activity of HDGF5 protein~~.

19. (Canceled)

20. (Canceled).

21. (Previously presented) The method of Claim 18 wherein said nucleotide sequence comprises nucleotides 5-910 in SEQ ID NO: 1.

22. (Canceled).